# SERVICE PROGRAM INSTRUCTIONS
# FOR CUSTOM ULTRASONICS PLUS PROGRAM 0211

1) Reboot computer.
2) At flashing logo screen press space bar.
3) Menu bar at the top of the screen (see below) will appear.

4) Red highlighted letters on menu are the activation keys. Press ALT key and C key simultaneously.
5) Using the arrow keys, press down arrow and HIGHLIGHT SERVICE press enter.
6) A blue selection bar will appear on the bottom.
7) Use arrow key and highlight DIGITAL I/O. press enter.
8) A component screen will appear (see below) the highlighted cursor will be located on 1-1. This cursor is controlled by the arrow keys.

| | | **Bay Outputs** | **Bay Inputs** | |
|---|---|---|---|---|
| | | 1 2 3 4 | 1 2 3 4 | |
| ultrasonics | 1 | o o o o | o o o o | 1 flow |
| drain pump | 2 | o o o o | o o o o | 2 float |
| drain sol | 3 | o o o o | o o o o | 3 safety |
| water in sol | 4 | o o o o | o o o o | 4 lubrication |
| oscillating pump | 5 | o o o o | o o o o | 5 water channel |
| disinfectant pump & sol | 6 | o o o o | o o o o | 6 reservoir pump |
| disinfectant feed sol | 7 | o o o o | | |
| disinfectant return sol | 8 | o o o o | | |
| residual drain pump & sol | 9 | o o o o | | |
| air pump & sol | 10 | o o o o | | |
| pump: lubricant (81); detergent (83) | 11 | o o o o | | |
| reservoir heating pad | 12 | o o o o | | |
| bay heating pad | 13 | o o o o | | |
| spray rinse | 14 | o o o o | | |
| detergent pump (81) | 15 | o o o o | | |
| enzyme pump (81) | 16 | o o o o | | |

9) To activate the component, highlight the component and press the SPACE BAR.. To de-activate the component press the SPACE BAR again. Multiple components can be turned on at the same time.
10) Only OUTPUTS can be activated by the cursor and space bar.
11) To end service program, Press enter. Again the blue bar will appear. Use arrow key and highlight EXIT. Press enter.

# SYSTEM MAINTENANCE

## Good Housekeeping Methods:

There are routine housekeeping methods that must be performed to maintain your System 83 Plus™ in good operating condition, and to maintain its aesthetics:

## Overnight Decontamination of the Internal Plumbing:

Before completion of the good housekeeping methods, you may implement decontamination of the internal plumbing of your System 83 Plus™ .

This procedure should be used when the chemical is about to expire do to the fact that the chemical will all be discarded out of the machine.

After determining that the level of active ingredient in the germicide chemical is adequate, the internal plumbing and the associated mechanical components of the System may be filled with the germicide:

**Note:** H/L/D has to be above minimum effective concentration.

1. Connect at least three (3) scope adapters to the BULKHEADS from the **right to the left** if the manifold is inside the chamber, if the manifold is on top of the machine the adapters should be connected from rear coming forward.

2. Press **F4 to enter "SPECIAL PROGRAMS".**

3. Press **F6 Purge** to start the emptying process of the chemical.

4. Allow the chemical agent to exit the chemical reservoir until 1 to 2 inches remain in the reservoir then Press **F1 Stop Maintenance.**

5. Shut the device off and allow the chemical to remain in the lines for the required time period. Follow the label directions of the chemical agent to achieve the level of decontamination/sterilization desired.

6. Upon completion of the proper soak time, turn ON the device and enter into the standard screen. Follow the instructions, on the next page to F6 Purge the system.

## F6: PURGE (Changing Chemical Germicide:)

There are several germicides available to chemical immerse your medical device(s).Custom Ultrasonics, as the manufacturer of System 83 Plus™ , does not recommend a specific chemical germicide except as it may relate to the germicides compatibility with the System 83 Plus™ . Read the label directions for its specific use life and use pattern. When the reuse life has expired, or when the agent has reached its MINIMUM EFFECTIVE CONCENTRATION, the chemical must be purged from the chemical reservoir. The reservoir must be cleaned using GOOD HOUSEKEEPING METHODS prior to refilling with the newly activated chemical agent.

1. Connect a minimum of three (3) adapters to bulkheads.

2. Press **F6 to PURGE** the System of the chemical agent. The chemical agent will be pumped from its reservoir into the processing chamber, and from the processing chamber into the hospital waste line. **Keep lids closed** during the PURGE phase to prevent chemical vapor from entering room air.

3. When no solution remains in the processing chamber Press **F1 STOP MAINTENANCE.** The PURGE PUMP moves the solution at a rate of fifteen (15) gallons/minute.

4. Initiate GOOD HOUSEKEEPING METHODS to clean the chemical reservoir.

   a. Clean the reservoir and processing chamber with a small amount of chlorine based agent such as Comet or Ajax and a soft cloth (Lint Free).

   b. A hand spray is attached to the back plain of the machine. Holding the hand spray, engage the **"RINSE"** switch, and a light will appear indicating water to the hand spray. To rinse the cleaning compound from the reservoir and processing chamber, depress the handle on the hand spray.

   c. Press **F6 PURGE** to remove the cleaning compound from the reservoir and processing chamber.

   d. Continue to use the hand spray until all cleaning agent residue has been removed from the reservoir and processing chamber.

   e. When you have finished, turn the **"RINSE" switch "OFF".** The rinse light will go "OFF" and place the hand spray into its holding bracket.

   f. Press **F1 STOP MAINTENANCE.**

   g. Pour one (1) quart of newly activated chemical agent into the reservoir and Press **F6 PURGE.**

h. When no chemical solution remains in the reservoir or the processing chamber, Press **F1 STOP MAINTENANCE.**

5. The reservoir is now ready to be filled with **six (6) gallons** of newly activated chemical solution.

6. To exit SPECIAL PROGRAMS and return to the STANDARD PROGRAM SCREEN, Press **F3 STANDARD**, or follow the screen prompts to initiate the program of your choice.

## Maintenance of the Adapters

To maintain the adapters in good working order, place a **drop of silicone** or silicone like lubricant once every two weeks on the "O" ring on the outside of one adapter. Insert the adapter and twist it around several times in all the bulkheads.

Check the nature of the "O" ring: it should be soft and pliable.

Lubricate with a small amount of silicon the "O" ring on the water bottle hook up and leak tester adapter.

Video scope **EtO cap** "O" ring's should also be lubricated with a small amount of silicon.

Any adapters that have a small white one inch round disc like filter, should replace these filters every **6 to 8 weeks** depending on amount of use. (Part # 16030)

## Maintenance of the Valve Covers:

To assure proper flow of solution through the channels during the STANDARDIZED PROCESS, check adequacy of the **value cover sponge(s)**. If excess wear is noted or if there is leakage around the value cover during operation, the sponge(s) must be replaced. Sponge material is available through Custom Ultrasonics.

For ordering information, call Customer Service at Custom Ultrasonics, 215-364-1477.